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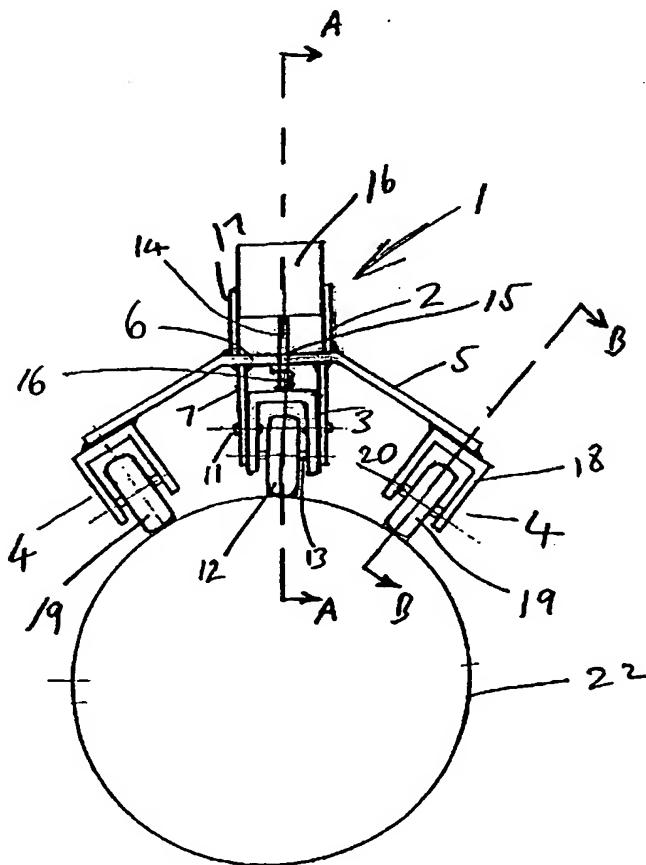
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(54) Title: APPARATUS FOR INSPECTING DEFORMATION OF PIPES



(57) Abstract: An apparatus (1) is provided for measuring deformation of a surface of a pipe (22). The apparatus has a central portion (2) to which a detector section (3) is mounted. At each side, guides (4) are connected to the housing via arms (5). The housing has a platform (6) below which an inverted U-shaped section (7) is provided, with the platform forming the base of the U. At the rear of this section a wheel is rotatably mounted on an axle. Forward of this, and also within the U-shaped section is mounted a further U-shaped section (10). This is pivotally mounted at its rear end by means of a pin such that its forward end is free to move vertically. The forward end has mounted within it a further wheel (12) on an axle (13). Projecting upwards from the second U-shaped section (10) is a rod (14) which passes through a hole (15) in platform (6). Around the lower portion of the rod is provided a spring (16) which biases the detector downwards and away from the platform. The rod moves vertically with the wheel (12) as it passes over bumps in the pipe. The rod is connected to a potentiometer which varies an output voltage. By correlating the variations in the output voltage with the distance moved by the detector, deformations in the pipe (22) may be mapped.

WO 03/076869 A1



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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 011, no. 049 (P-547), 14 February 1987 (1987-02-14) & JP 61 215901 A (KAWASAKI STEEL CORP; OTHERS: 01), 25 September 1986 (1986-09-25) abstract	1-3, 13, 14
X	US 4 240 206 A (BARESH JOSEPH M ET AL) 23 December 1980 (1980-12-23) the whole document	1-4, 6-8, 13, 14
X	US 5 335 422 A (FERGUSON CLAYTON L) 9 August 1994 (1994-08-09) the whole document	1, 2, 4, 6-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

- *A* document defining the general state of the art which is not considered to be of particular relevance
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 389 788 A (BALOGH LOUIS J ET AL) 28 June 1983 (1983-06-28) the whole document -----	1-3, 13, 14

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US 4240206	A	23-12-1980	NONE	
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